

इंटरनेट

मानक

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“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 2015 (1977): T-Nuts [PGD 2: Machine Tool Elements and Holding Devices]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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Indian Standard
SPECIFICATION FOR
T-NUTS

(*First Revision*)

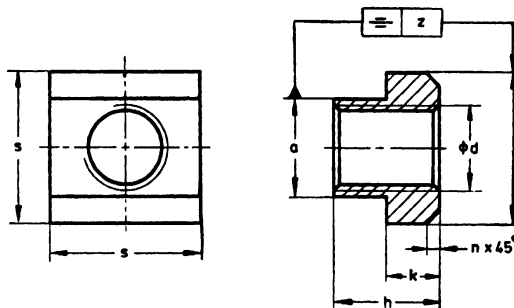
(Incorporating Amendment No. 1)

1. Scope — Covers the requirements for T-nuts for use with studs on machine tools and other applications, wherein T-slots according to IS : 2013-1974 'Dimensions for T-slots (*first revision*) are provided.

2. Dimensions and Tolerances — The dimensions of T-nuts shall be as given in Table 1.

TABLE 1 DIMENSIONS OF T-NUTS

All dimensions in millimetres.



Nominal Size of T-Slot	Width of T-Nut		d	s	Tol on s	n	h	k	Tol on k	z
	a	Tol* on a								
5	5	-0.3 -0.5	M4	9	0 -0.5	1.0	6.5	2.5	0 -0.3	0.2
6	6		M5	10		1.6	8	4		
8	8		M6	13			10	6		
10	10	-0.3 -0.6	M8	15		2.5	12	0 -0.5	0.4	
12	12		M10	18			14			7
14	14		M12	22			16			8
18	18		M16	28	20		10			
22	22		M20	35	28		14			
28	28		M24	44	4.0		36	18		0 -1.0
36	36	M30	54	44		22				
42	42	M36	65	52		26				
48	48	-0.4 -0.7 -0.8	M42	75	6.0	60	30	0 -1.0	0.6	
54	54		M48	85		70	34			

*Tolerance on dimension 'a' corresponds to a 13 but rounded off to the nearest decimal place.

Adopted 24 October 1977

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Price Group 1

BUREAU OF INDIAN STANDARDS
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IS : 2015 - 1977

2.1 The thread details and surface finish to T-nuts shall be those specified for precision grade (A) of IS : 1367-1980 'Technical supply conditions for threaded fasteners (*second revision*).

3. Mechanical Properties — The mechanical properties for T-nuts made of steel shall conform to those given under property class 8 of IS : 1367-1980.

4. Designation — A T-nut of width $a = 22$ mm shall be designated as:

T-Nut 22 IS : 2015

5. General Requirements — The T-nuts shall comply with the requirements of IS : 1367-1980 in so far as manufacture, workmanship, marking and packing are concerned.

6. ISI Certification Marking — Details available with the Indian Standards Institution.

EXPLANATORY NOTE

This standard was originally issued in 1962. The present revision has become necessary as the standard on T-slots has since been revised and published as IS : 2013-1974 and which now conforms to the corresponding ISO Standard.

In the revision of this standard, considerable assistance has been derived from DIN 508-1969 'Nuts for T-Slots', issued by Deutsches Institute für Normung (DIN). Also, the following changes have been made:

- a) The range of dimensions for nut sizes below 10 mm and above 42 mm are included which will be in line with IS : 2013-1974.
- b) Property class 4D changed to class 6 for higher strength and to be in line with IS : 1367-1967.

If the nuts are to have their full load carrying capacity, it is essential for the screw to engage throughout the entire length of thread in the nut. As far as effective load transmission is concerned, the length of thread within width a cannot be relied on entirely, owing to the reduced section thickness.

This edition 2.1 incorporates Amendment No. 1 (July 1995). Side bar indicates modification of the text as the result of incorporation of the amendment.